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1 ,	CLAIMS
2	What is claimed is:
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4	Claim 1. An article of manufacture capable of detecting
5	the presence of a particular toxic substance comprising:
6	a substrate located on at least a portion of said
7	article;
8	a biologically active ligand capable of recognizing an
9	epitope of the particular toxic substance on at least a
10	portion of said substrate; and
11	a biological activity maintaining matrix adapted to
12	immobilize said biologically active ligand upon said
13	substrate;
14	wherein said ligand is constructed and arranged to
15	produce a visual indicator upon recognition of said toxic
16	substance.
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18	Claim 2. The article of manufacture in accordance with
19	claim 1 wherein:
20	said substrate is flexible.
21	Claim 3. The article of manufacture in accordance with
22	claim 1 wherein:
23	said substrate is releasably secured to said article of
24	manufacture.

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2	Claim 4. The article of manufacture in accordance with
3	claim 1 wherein:
4	said substrate is permanently secured to said article of
5	manufacture.
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7	Claim 5. The article of manufacture in accordance with
8	claim 1 wherein:
9	said substrate is formed integral with said article of
10	manufacture.
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12	Claim 6. The article of manufacture in accordance with
13	claim 1 wherein:
14	said substrate is a polymer film securable to said
15	article.
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17	Claim 7. The article of manufacture in accordance with
18	claim 1 wherein:
19	said biologically active ligand is immobilized in a
20	particular icon shape.
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22	Claim 8. The article of manufacture in accordance with
23	claim 1 wherein:
24	said ligand is selected from the group consisting of an

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antibody, a single stranded nucleic acid probe, an aptamer, a 1 lipid, a natural receptor, a lectin, a carbohydrate and a 2 3 protein. 4 The article of manufacture in accordance with 5 Claim 9. claim 1 further including: a scavenger antibody, which is a particular 7 biologically active ligand characterized as having a higher 8 9 affinity for the particular toxic substance than said biologically active ligand, said scavenger antibody adapted 10 11 to be immobilized upon said substrate and present in a sufficient amount to bind with the particular toxic substance 12 up to and including a specific threshold concentration; 13 14 whereby said biologically active ligand will be prevented from binding with a detector antibody until the 15 16 concentration of the particular toxic substance surpasses the specific threshold concentration. 17 18 Claim 10. The article of manufacture in accordance with 19 claim 1 wherein: 20 21 the particular toxic substance is at least one member 22 selected from the group consisting of at least one particular

microorganism , biological materials containing the genetic

characteristics of said at least one particular

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microorganism, mutations thereof, nucleic acids, proteins, 1 integral components of said at least one particular 2 3 microorganism and combinations thereof. 4 5 Claim 11. The article of manufacture in accordance with 6 claim 1 wherein: 7 said ligand is a chromogenic ligand. 8 Claim 12. The article of manufacture in accordance with 9 claim 1 wherein: 10 said biological activity maintaining matrix is a water 11 12 gloss overprint varnish. 13 Claim 13. The article of manufacture in accordance with 14 15 claim 1 wherein: said biological activity maintaining matrix is a 16 17 gelcoat. 18 Claim 14. A process for detecting the presence of a 19 20 particular toxic substance on an article of manufacture, said 21 process comprising: 22 securing a substrate; 23 placing a biologically active ligand capable of

recognizing and visually indicating contact with an epitope

1	of the particular toxic substance on at least a portion of
2	said substrate;
3	contacting said biologically active ligand with a
4	biological activity maintaining matrix adapted to immobilize
5	said biologically active ligand upon said substrate; and
6	exposing said article of manufacture to the environment
7	wherein contact with said particular toxic substance
8	results in production of a visual indicator to confirm said
9	contact.
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